Author Index of Vol. 58

Abraham LD, Loeb GE: The distal hindlimb musculature of the cat. Patterns of normal use 580
Abraham LD, Marks WB, Loeb GE: The distal hindlimb musculature ot the cat. Cutaneous reflexes during locomotion 594
Abbruzzese G, Berardelli A, Rothwell JC, Day BL, Marsden CD: Cerebral potentials and electromyographic responses evoked by stretch of wrist muscles in man 544
Aggleton JP, Mishkin M: Mamillary-body lesions and visual recognition in monkeys 190
Ahlsén G, Lindström S, Lo Fu-San: Interaction between inhibitory pathways to principal cells in the lateral geniculate nucleus of the cat 134
Allum JHJ, Pfaltz CR: Visual and vestibular contributions to pitch sway stabilization in the ankle muscles of normals and patients with bilateral peripheral vestibular deficits . . 82
Armstrong DM, see Campbell NC 520
Arshavsky YuI, Beloozerova IN, Orlovsky GN, Panchin YuV, Pavlova GA: Control of locomotion in marine mollusc *Clione limacina*. I. Efferent activity during actual and fictitious swimming 255
Arshavsky YuI, Beloozerova IN, Orlovsky GN, Panchin YuV, Pavlova GA: Control of locomotion in marine mollusc *Clione limacina*. II. Rhythmic neurons of pedal ganglia 263
Arshavsky YuI, Beloozerova IN, Orlovsky GN, Panchin YuV, Pavlova GA: Control of locomotion in marine mollusc *Clione limacina*. III. On the origin of locomotory rhythm 273
Arshavsky YuI, Beloozerova IN, Orlovsky GN, Panchin YuV, Pavlova GA: Control of locomotion in marine mollusc *Clione limacina*. IV. Role of type 12 interneurons . 285
Asanuma H, see Mori A, et al. 440
Babb RS, see Mori A, et al. 440
Bak MJ, see Palmer CI, et al. 102
Baldissera F, Campadelli P, Piccinelli L: The dynamic sensitivity of pyramidal tract neurones is influenced by previous activity 41
Beloozerova IN, see Arshavsky YuI, et al. 255
Beloozerova IN, see Arshavsky YuI, et al. 263
Beloozerova IN, see Arshavsky YuI, et al. 273
Beloozerova IN, see Arshavsky YuI, et al. 285
Ben-Ari Y, see Charton G, et al. 202
Berardelli A, see Abbruzzese G, et al. 544
Bianchi R, see Gioia M, et al. 318
Biegon A, see Renner KJ, et al. 198
Björklund A, see Kelly PAT, et al. 570
Björklund H, Eriksdotter-Nilsson M, Dahl D, Rose G, Hoffer B, Olson L: Image analysis of GFA-positive astrocytes from adolescence to senescence 163
Brodal A, Brodal P: Observations on the secondary vestibulocerebellar projections in the macaque monkey 62
Brodal P, see Brodal A 62
Buchtel HA, see Guitton D, et al. 455
Bureš J, see Hernandez-Mesa N, et al. 117
Burton H, see Craig AD, ... 227
Campadelli P, see Baldissera F, et al. 41
Campbell NC, Armstrong DM: Origin in the medial accessory olive of climbing fibres to the x and lateral c1 zones of the cat cerebellum: a combined electrophysiological/WGA-HRP investigation 520
Charton G, Rovira C, Ben-Ari Y, Leviel V: Spontaneous and evoked release of endogenous Zn^{2+} in the hippocampal mossy fiber zone of the rat in situ 202
Cleland BG, see Crewther DP, et al. 427
Commenges D, see Seal J 144
Conference Abstracts: Cerebral events in voluntary movement: the supplementary motor and premotor areas A1
Craig AD, Burton H: The distribution and topographical organization in the thalamus of anterogradely-transported horseradish peroxidase after spinal injections in cat and raccoon 227
Creutzfeldt OD, see Valberg A, et al. 604
Crewther DP, Crewther SG, Cleland BG: Is the retina sensitive to the effects of prolonged blur? 427
Crewther SG, see Crewther DP, et al. 427
Curio G, Grüsser O-J: Visual-vestibular interaction studied with stroboscopically illuminated visual patterns 294
Curtis DR, Malik R: The differential effects of baclofen on segmental and descending excitation of spinal interneurones in the cat 333
Cynader MS, see Phillips DP, et al. 443
Dahl D, see Björklund H, et al. 163
Darlot C, Denise P, Droulez J: Modulation by horizontal eye position of the vestibulo-collic reflex induced by tilting in the frontal plane in the alert cat 510
Day BL, see Abbruzzese G, et al. 544
Denise P, see Darlot C, et al. 510
Douglas RM, see Phillips DP, et al. 443
Douglas RM, see Guitton D, et al. 455
Droulez J, see Darlot C, et al. 510
Dürsteler MR, see Newsome WT, et al. 392
Elisevich K, Hrycyshyn AW, Flumerfelt BA: Supramedullary projections to the dorsal and vetral divisions of the paramedian reticular nucleus in the cat 368
Eriksdotter-Nilsson M, see Björklund H, et al. 163
Feldon J, Rawlins JNP, Gray JA: Fornix-fimbria section and the partial reinforcement extinction effect 435
Flumerfelt BA, see Elisevich K, et al. 368
Franchi G, see Spidalieri G, et al. 75
Fries W, Keizer K, Kuypers HGJM: Large layer VI cells in macaque striate cortex (Meynert cells) project to both superior colliculus and prestriate visual area V5 613
Gage FH, see Kelly PAT, et al. 570
Gioia M, Tredici G, Bianchi R: A Golgi study of the periaqueductal gray matter in the cat. Neuronal types and their distribution 318
Gray JA, see Feldon J, et al. 435
Grüsser O-J, see Curio G 294
Guandalini P, see Spidalieri G, et al. 75
Guilbaud G, Iggo A, Tegnér R: Sensory receptors in ankle joint capsules of normal and arthritic rats 29
Guitton D, Buchtel HA, Douglas RM: Frontal lobe lesions in man cause difficulties in suppressing reflexive glances and in generating goal-directed saccades 455
Hammer A, see Yinon U 552
Heil P, Scheich H: Quantitative analysis and two-dimensional reconstruction of the tonotopic organization of the auditory field L in the chick from 2-deoxyglucose data . . . 532
Hernandez-Mesa N, Mamedov Z, Bureš J: Operant control of the pattern of licking in rats 117

Author Index of Vol. 58

Abraham LD, Loeb GE: The distal hindlimb musculature of the cat. Patterns of normal use 580
Abraham LD, Marks WB, Loeb GE: The distal hindlimb musculature ot the cat. Cutaneous reflexes during locomotion 594
Abbruzzese G, Berardelli A, Rothwell JC, Day BL, Marsden CD: Cerebral potentials and electromyographic responses evoked by stretch of wrist muscles in man 544
Aggleton JP, Mishkin M: Mamillary-body lesions and visual recognition in monkeys 190
Ahlsén G, Lindström S, Lo Fu-San: Interaction between inhibitory pathways to principal cells in the lateral geniculate nucleus of the cat 134
Allum JHJ, Pfaltz CR: Visual and vestibular contributions to pitch sway stabilization in the ankle muscles of normals and patients with bilateral peripheral vestibular deficits . . 82
Armstrong DM, see Campbell NC 520
Arshavsky YuI, Beloozerova IN, Orlovsky GN, Panchin YuV, Pavlova GA: Control of locomotion in marine mollusc *Clione limacina*. I. Efferent activity during actual and fictitious swimming 255
Arshavsky YuI, Beloozerova IN, Orlovsky GN, Panchin YuV, Pavlova GA: Control of locomotion in marine mollusc *Clione limacina*. II. Rhythmic neurons of pedal ganglia 263
Arshavsky YuI, Beloozerova IN, Orlovsky GN, Panchin YuV, Pavlova GA: Control of locomotion in marine mollusc *Clione limacina*. III. On the origin of locomotory rhythm 273
Arshavsky YuI, Beloozerova IN, Orlovsky GN, Panchin YuV, Pavlova GA: Control of locomotion in marine mollusc *Clione limacina*. IV. Role of type 12 interneurons . 285
Asanuma H, see Mori A, et al. 440
Babb RS, see Mori A, et al. 440
Bak MJ, see Palmer CI, et al. 102
Baldissera F, Campadelli P, Piccinelli L: The dynamic sensitivity of pyramidal tract neurones is influenced by previous activity 41
Beloozerova IN, see Arshavsky YuI, et al. 255
Beloozerova IN, see Arshavsky YuI, et al. 263
Beloozerova IN, see Arshavsky YuI, et al. 273
Beloozerova IN, see Arshavsky YuI, et al. 285
Ben-Ari Y, see Charton G, et al. 202
Berardelli A, see Abbruzzese G, et al. 544
Bianchi R, see Gioia M, et al. 318
Biegon A, see Renner KJ, et al. 198
Björklund A, see Kelly PAT, et al. 570
Björklund H, Eriksdotter-Nilsson M, Dahl D, Rose G, Hoffer B, Olson L: Image analysis of GFA-positive astrocytes from adolescence to senescence 163
Brodal A, Brodal P: Observations on the secondary vestibulocerebellar projections in the macaque monkey 62
Brodal P, see Brodal A 62
Buchtel HA, see Guitton D, et al. 455
Bureš J, see Hernandez-Mesa N, et al. 117
Burton H, see Craig AD, ... 227
Campadelli P, see Baldissera F, et al. 41
Campbell NC, Armstrong DM: Origin in the medial accessory olive of climbing fibres to the x and lateral c1 zones of the cat cerebellum: a combined electrophysiological/WGA-HRP investigation 520
Charton G, Rovira C, Ben-Ari Y, Leviel V: Spontaneous and evoked release of endogenous Zn^{2+} in the hippocampal mossy fiber zone of the rat in situ 202
Cleland BG, see Crewther DP, et al. 427
Commenges D, see Seal J 144
Conference Abstracts: Cerebral events in voluntary movement: the supplementary motor and premotor areas A1
Craig AD, Burton H: The distribution and topographical organization in the thalamus of anterogradely-transported horseradish peroxidase after spinal injections in cat and raccoon 227
Creutzfeldt OD, see Valberg A, et al. 604
Crewther DP, Crewther SG, Cleland BG: Is the retina sensitive to the effects of prolonged blur? 427
Crewther SG, see Crewther DP, et al. 427
Curio G, Grüsser O-J: Visual-vestibular interaction studied with stroboscopically illuminated visual patterns 294
Curtis DR, Malik R: The differential effects of baclofen on segmental and descending excitation of spinal interneurones in the cat 333
Cynader MS, see Phillips DP, et al. 443
Dahl D, see Björklund H, et al. 163
Darlot C, Denise P, Droulez J: Modulation by horizontal eye position of the vestibulo-collic reflex induced by tilting in the frontal plane in the alert cat 510
Day BL, see Abbruzzese G, et al. 544
Denise P, see Darlot C, et al. 510
Douglas RM, see Phillips DP, et al. 443
Douglas RM, see Guitton D, et al. 455
Droulez J, see Darlot C, et al. 510
Dürsteler MR, see Newsome WT, et al. 392
Elisevich K, Hrycyshyn AW, Flumerfelt BA: Supramedullary projections to the dorsal and vetral divisions of the paramedian reticular nucleus in the cat 368
Eriksdotter-Nilsson M, see Björklund H, et al. 163
Feldon J, Rawlins JNP, Gray JA: Fornix-fimbria section and the partial reinforcement extinction effect 435
Flumerfelt BA, see Elisevich K, et al. 368
Franchi G, see Spidalieri G, et al. 75
Fries W, Keizer K, Kuypers HGJM: Large layer VI cells in macaque striate cortex (Meynert cells) project to both superior colliculus and prestriate visual area V5 613
Gage FH, see Kelly PAT, et al. 570
Gioia M, Tredici G, Bianchi R: A Golgi study of the periaqueductal gray matter in the cat. Neuronal types and their distribution 318
Gray JA, see Feldon J, et al. 435
Grüsser O-J, see Curio G 294
Guandalini P, see Spidalieri G, et al. 75
Guilbaud G, Iggo A, Tegnér R: Sensory receptors in ankle joint capsules of normal and arthritic rats 29
Guitton D, Buchtel HA, Douglas RM: Frontal lobe lesions in man cause difficulties in suppressing reflexive glances and in generating goal-directed saccades 455
Hammer A, see Yinon U 552
Heil P, Scheich H: Quantitative analysis and two-dimensional reconstruction of the tonotopic organization of the auditory field L in the chick from 2-deoxyglucose data . . . 532
Hernandez-Mesa N, Mamedov Z, Bureš J: Operant control of the pattern of licking in rats 117

Hicks TP, Ruwe WD, Veale WL, Veenhuizen J: Aspartate and glutamate as synaptic transmitters of parallel visual cortical pathways 421
Hikosaka O, see Iwamura Y, et al. 400
Hikosaka O, see Iwamura Y, et al. 412
Hoffer B, see Björklund H, et al. 163
Holstege G, Meiners L, Tan K: Projections of the bed nucleus of the stria terminalis to the mesencephalon, pons, and medulla oblongata in the cat 379
Hrycyshyn AW, see Elisevich K, et al. 368
Iggo A, see Guilbaud G, et al. 29
Iggo A, see Mokha SS, et al. 213
Iggo A, see Steedman WM, et al. 171
Ingvar M, see Kelly PAT, et al. 570
Irle E: Combined lesions of septum, amygdala, hippocampus, anterior thalamus, mamillary bodies and cingulate and subicular cortex fail to impair the acquisition of complex learning tasks 346
Iwamura Y, Tanaka M, Sakamoto M, Hikosaka O: Diversity in receptive field properties of vertical neuronal arrays in the crown of the postcentral gyrus of the conscious monkey 400
Iwamura Y, Tanaka M, Sakamoto M, Hikosaka O: Vertical neuronal arrays in the postcental gyrus signaling active touch: a receptive field study in the conscious monkey . . . 412
Jones DG, see Warton SS 490
Keizer K, see Fries W, et al. 613
Kelly PAT, Gage FH, Ingvar M, Lindvall O, Stenevi U, Björklund A: Functional reactivation of the deafferented hippocampus by embryonic septal grafts as assessed by measurements of local glucose utilization 570
Klockgether T, Schwarz M, Turski L, Wolfarth S, Sontag K-H: Rigidity and catalepsy after injections of muscimol into the ventromedial thalamic nucleus: and electromyographic study in the rat 559
Kuypers HGJM, see Fries W, et al. 613
Lee BB, see Valberg A, et al. 604
Lescaudron L, Verna A: Effects of chronic ethanol consumption on pyramidal neurons of the mouse dorsal and ventral hippocampus: a quantitative histological analysis 362
Levick WR, see Thibos LN 1
Leviel V, see Charton G, et al. 202
Lindström S, see Ahlsén G, et al. 134
Lindvall O, see Kelly PAT, et al. 570
Lo Fu-Sun, see Ahlsén G, et al. 134
Loeb GE, see Abraham LD 580
Loeb GE, see Abraham LD, et al. 594
Luine VN, see Renner KJ, et al. 198
Malik R, see Curtis DR 333
Mamedov Z, see Hernandez-Mesa N, et al. 117
Marks WB, see Abraham LD, et al. 594
Marks WB, see Palmer CI, et al. 102
Marsden CD, see Abbruzzese G, et al. 544
Martin GF, Vertes RP, Waltzer R: Spinal projections of the gigantocellular reticular formation in the rat. Evidence for projections from different areas to laminae I and II and lamina IX 154
Matthews MA: Transplantation of fetal lateral geniculate nucleus to the occipital cortex: connectivity with host's area 17 473
McMillan JA, see Mokha SS, et al. 213
Meiners L, see Holstege G, et al. 379
Mendelson JR, see Phillips DP, et al. 443
Mikami A, see Newsome WT, et al. 392
Mishkin M, see Aggleton JP 190
Mokha SS, McMillan JA, Iggo A: Descending control of spinal nociceptive transmission. Actions produced on spinal multireceptive neurones from the nuclei locus coeruleus (LC) and raphe magnus (NRM) 213
Molony V, see Steedman WM, et al. 171
Morgan DL, Prochazka A, Proske U: Action of single dynamic fusimotor neurones on cat soleus Ia afferents during muscle shortening 56
Mori A, Babb RS, Wates RS, Asanuma H: Motor effects produced by stimulation of secondary somatosensory (SII) cortex in the monkey 440
Morris RGM, see Schenk F 11
Newsome WT, Wurtz RH, Dürsteler MR, Mikami A: Punctate chemical lesions of striate cortex in the macaque monkey: effect on visually guided saccades 392
Orlovsky GN, see Arshavsky YuI, et al. 255
Orlovsky GN, see Arshavsky YuI, et al. 263
Orlovsky GN, see Arshavsky YuI, et al. 273
Orlovsky GN, see Arshavsky YuI, et al. 285
Olson L, see Björklund H, et al. 163
Palmer CI, Marks WB, Bak MJ: The responses of cat motor cortical units to electrical cutaneous stimulation during locomotion and during lifting, falling and landing 102
Panchin YuV, see Arshavsky YuI, et al. 255
Panchin YuV, see Arshavsky YuI, et al. 263
Panchin YuV, see Arshavsky YuI, et al. 273
Panchin YuV, see Arshavsky YuI, et al. 285
Pavlova GA, see Arshavsky YuI, et al. 255
Pavlova GA, see Arshavsky YuI, et al. 263
Pavlova GA, see Arshavsky YuI, et al. 273
Pavlova GA, see Arshavsky YuI, et al. 285
Payne JN, see Wharton SM 183
Pfaltz CR, see Allum JHJ 82
Phillips DP, Mendelson JR, Cynader MS, Douglas RM: Responses of single neurones in cat auditory cortex to time-varying stimuli: frequency-modulated tones of narrow excursion 443
Piccinelli L, see Baldissera F, et al. 41
Pramod R, see Zahalak GI 305
Price D, Zumbroich T: Horseradish peroxidase cross-reacts during cytochrome oxidase histochemisty 206
Price DJ: Patterns of cytochrome oxidase activity in areas 17, 18 and 19 of the visual cortex of cats and kittens 125
Prochazka A, see Morgan DL, et al. 56
Proske U, see Morgan DL, et al. 56
Rawlins JNP, see Feldon J, et al. 435
Renner KJ, Biegon A, Luine VN: Sex differences in long-term gonadectomized rats: monoamine levels and [^{3}H]nitroimipramine binding in brain nuclei 198
Rose G, see Björklund H, et al. 163
Rothwell JC, see Abbruzzese G, et al. 544
Rovira C, see Charton G, et al. 202
Ruwe WD, see Hicks TP, et al. 421
Sakai M: Dendritic bundles formed by layer VI pyramidal cells in the monkey frontal association cortex 609
Sakai ST, see Tanaka jr. D 338
Sakamoto M, see Iwamura Y, et al. 400
Sakamoto M, see Iwamura Y, et al. 412
Scheich H, see Heil P 532
Schenk F, Morris RGM: Dissociation between components of spatial memory in rats after recovery from the effects of retrohippocampal lesions 11
Schlag J. Schlag-Rey M: Unit activity related to spontaneous saccades in frontal dorsomedial cortex of monkey 208
Schlag-Rey M, see Schlag J 208
Schwarz M. see Klockgether T, et al. 559
Seal J, Commenges D: A quantitative analysis of stimulus- and movement-related responses in the posterior parietal cortex of the monkey 144

Sirkin DW, Zedek Y, Teitelbaum P: Effects of pontine reticular formation lesions on optokinetic head nystagmus in rats 503
Sontag K-H, see Klockgether T, et al. 559
Spidalieri G, Franchi G, Guandalini P: Somatic receptive-field properties of single fibres in the rostral portion of the corpus callosum in awake cats 75
Starr MS, Summerhayes M: Dysfunction of the midbrain angular complex can accentuate or attenuate circling behaviour in the rat 45
Steedman WM, Molony V, Iggo A: Nociceptive neurones in the superficial dorsal horn of cat lumbar spinal cord and their primary afferent inputs 171
Stenevi U, see Kelly PAT, et al. 570
Summerhayes M, see Starr MS 45
Tan K, see Holstege G, et al. 379
Tanaka jr. D, Sakai ST: Corticostriate projections from area 6 in the raccoon 338
Tanaka M, see Iwamura Y, et al. 400
Tanaka M, see Iwamura Y, et al. 412
Tegnér R, see Guilbaud G, et al. 29
Teitelbaum P, see Sirkin DW, et al. 503
Thibos LN, Levick WR: Orientation bias of brisk-transient y-cells of the cat retina for drifting and alternating gratings . 1
Tigwell DA, see Valberg A, et al. 604
Tredici G, see Gioia M, et al. 318
Turski L, see Klockgether, et al. 559
Valberg A, Lee BB, Tigwell DA, Creutzfeldt OD: A simultaneous contrast effect of steady remote surrounds on responses of cells in macaque lateral geniculate nucleus . 604
Veale WL, see Hicks TP, et al. 421
Veenhuizen J, see Hicks TP, et al. 421
Verna A, see Lescaudron L 362
Vertes RP, see Martin GF, et al. 154
Waltzer R, see Martin GF, et al. 154
Warton SS, Jones DG: Postnatal development of the superficial layers in the rat superior colliculus: a study with Golgi-Cox and Klüver-Barrera techniques 490
Waters RS, see Mori A, et al. 440
Wharton SM, Payne JN: Axonal branching in parasagittal zones of the rat olivocerebellar projection: a retrograde fluorescent double-labelling study 183
Wiksten B: Retrograde HRP study of neurons in the cervical enlargement projecting to the cerebellum in the cat 95
Wolfarth S, see Klockgether T, et al. 559
Wurtz RH, see Newsome WT, et al. 392
Yinon U, Hammer A: Optic chiasm split and binocularity diminution in cortical cells of acute and of chronic operated adult cats 552
Zahalak GI, Pramod R: Myoelectric response of the human triceps brachii to displacement-controlled oscillations of the forearm 305
Zedek Y, see Sirkin DW, et al. 503
Zumbroich T, see Price D 206